

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A method for two-dimensionally separating substances in a sample with a two-dimensional separation device, which comprises:

a) conducting first dimensional separation of a test sample using the device through electrophoresis or isoelectric focusing in a gel; and

b) conducting second dimensional separation of the substances so separated as a result of the first dimensional separation using the device through capillary electrophoresis, wherein a second dimensional separation medium is composed of said device comprises a means for said first dimensional separation and a means for the second dimensional separation comprising a plurality of capillaries provided on a planar support separation media which are independent

each other. ² (Canceled)

3. (Currently amended) The separating method of claim 1, wherein the substances to be separated are proteins.

4. (Currently amended) The separating method of claim 1, wherein the separating first dimensional separation is carried out by electrophoresis conducted through isoelectric focusing.

5. (Currently amended) A two-dimensional separation device ~~composed of the following elements for separating substances in a sample, which comprises:~~

a) a means for holding a first dimensional separation medium in contact with a second dimensional separation medium of a test sample through electrophoresis or isoelectric focusing in a gel ^{1,3} b) a means for second dimensional separation medium composed of a plurality of

separation media which are independent each other, of the substances so separated as a result of the first dimensional separation through capillary electrophoresis, which comprises a plurality of

c) a means for providing the driving force for second dimensional separation an electric capillaries provided on a planar support; and
power source to apply voltage to each of the first and second dimensional separations.

6. (Currently amended) ~~The two-dimensional separation device of claim 5, wherein a plurality of separation media which are independent each other are filled into a plurality of physically separated spaces arranged in rows on a planar support~~ the means for first dimensional separation is for isoelectric focusing.

7. (Canceled)

8. (Currently amended) ~~A second-dimensional separation medium composed of a plurality of separation media which are independent each other~~ planar support for two-dimensional separation of substances in a sample, which is supplied through electrophoresis or isoelectric focusing in a gel; and
b) a means for second dimensional separation of the substances so separated as a result of the first dimensional separation through capillary electrophoresis, which comprises a plurality of capillaries provided on a planar support.

9. (New) The planar support of claim 8, wherein the means for first dimensional separation is for isoelectric focusing.